Patent Claims

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- A system for packaging a flexible web, in particular a textile web, which is positioned in zigzag-form loops, characterized by:
 - a positioning device (1) for forming an arrangement (3) from a web (2) positioned in zigzag form;
- a transfer device (26, 26a) for transferring
 10 the web-loop arrangement (3) directly or
 indirectly into a packaging container (90);
 - a memory-programmable control device for components of the system.
- 15 2. The system as claimed in claim 1, characterized in that the control device is designed for controlling the system fully automatically.
- 3. The system as claimed in claim 1 or 2, characterized in that the length of the web loops can be adjusted to a different magnitude from one web loop to the next at the control device.
- 4. The system as claimed in one of claims 1 to 3, characterized in that it is possible to adjust the length of the web for each web-loop arrangement at the control device, it being possible, in the case of multi-arrangement packs, for the overall length of the web of the pack to be distributed preferably uniformly over all the arrangements.
- 5. The system as claimed in one of claims 1 to 4, characterized in that the positioning device (1) positioning in the region, 35 pressure-exerting bar (12) which extends over the can length, be advanced loop perpendicularly to a bearing panel (4) for the web-loop arrangement (3), can be pressed against

the edges of the web loops (2a) of adjustable magnitude and is preferably provided with a controllable drive (20, 22) for raising it up during transfer.

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- The system as claimed in one of claims 1 to 5, 6. characterized in that the positioning device (1) contains a positioning carriage (6) which can be moved back and forth and has two positioning rollers (7, 8) which are arranged one beside the other, with axes parallel to one another, and are in the rotation same direction driven in between which the web (2) can be drawn in from an infeed side (10) and can be folded by positioning carriage (6) being moved back forth perpendicularly to the drawing-in direction of the web, and can be moved on beneath the pressure-exerting bar (12) in a removal direction corresponding to the drawing-in direction (X).
- The system as claimed in one of claims 1 to 6, 7. characterized in that the transfer device (26a) has blades (130, 132) which are located downstream 25 of the positioning device (1), are provided on a displacement bar (124) and are arranged such that they can be moved in between two web loops (2a) from above and moved apart laterally in order to separate two web loops and to transfer 30 web-loop arrangement (3) located in front of them.
- 8. The system as claimed in one of claims 1 to 6, characterized in that the transfer device (26) has preferably finger-like pusher members (28) on the infeed side of the web (2) in the positioning device (1), it being possible for these pusher members to be moved out of a rest position, in which they do not impede the running of the web, into an operating position, in which they can be

moved through beneath the pressure-exerting bar (12), parallel to the bearing panel (4) of the web-loop arrangement (3), until, on the other side of the pressure-exerting bar (12), carry-along elements (42) can be moved in between or behind the web-loop arrangement from a rest position in for the web-loop arrangement (3) device into а receiving (24).displaced transversely to the loop arrangement, by means of the carry-along elements.

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- 9. The system as claimed in claim 8, characterized in that the pusher members (28) can be lowered vertically into the operating position from a raised rest position above the bearing panel (4).
- 10. The system as claimed in claim 8, characterized in that the carry-along elements (42) are of finger-like design and can be moved in between the pusher members (28) in the vertically downward direction from a top rest position.
- 11. The system as claimed in one of claims 5 to 10, characterized in that the bearing panel (4) have braking strips (56) along the displacement path of the folds (2b, 2c) of the web loops (2a), from the positioning device (1) into the receiving device (24).
- 30 12. The system as claimed in one of claims 5 to 11, characterized in that guide bars (60) which guide the web-loop arrangement (3) and are oriented transversely to the loop arrangement are arranged above the bearing panel (4).

13. The system as claimed in one of claims 1 to 12, characterized in that at least one resiliently yielding stop member (62) is arranged in the receiving device (24), in the region between the

Express Label No. EV343684019US folds (2b, 2c), in order for web parts which curve forward in the receiving direction to be oriented parallel to the loop arrangement (2a).

- 5 14. The system as claimed in one of claims 1 to 13, characterized in that the receiving device (24) is designed as a stacking device for the web-loop arrangements (3).
- 10 15. The system as claimed in claim 14, characterized in that the stacking device (24) has a rear wall (64), which serves as a stop for the web-loop arrangements (3) which are to be received, a base (66), which can be lowered by the thickness of the web-loop arrangements (3), and a cover (68), which can be adjusted in relation to the base (66) and serves at least as a top guide for a web-loop arrangement (3) which is to be transferred.
- 20 16. The system as claimed in claim 15, characterized in that the cover (68) can be displaced parallel to the base (66) as top boundary of the stack.
- 17. The system as claimed in one of claims 1 to 16, characterized in that it has, in the receiving device (24), an accommodating base (82) which can be retracted in the base plane and preferably comprises two base halves (84) which can be retracted laterally in opposite directions.

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- 18. The system as claimed in one of claims 14 to 17, characterized in that the stacking device (24) can be lowered into a packing station in which the web-loop stack can be ejected out of the stacking device (24), by means of an ejecting ram (88), into an associated packaging container (90).
- 19. A packaging container for the system as claimed in one of claims 1 to 18, characterized in that it

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has a base (108) with three side walls (110, 112, 114) integrally formed on it, the fourth side, which serves for the introduction of the group of web loops, having a side-wall part (116) which can be swung downward, and a cover (118) being articulated on the opposite side wall, this cover having a border part (120) which at least largely covers the fourth side.